**3GPP TSG-RAN WG2 Meeting #116bis electronic R2-220xxxx**

**Online, 17 – 25 January 2022**

**Source: LG**

**Title:** **Summary of [POST116bis-e][707][V2X/SL] Open issues on IUC, Phase 2**

**Agenda Item:** **8.15.3**

**Document for:** **Discussion and Decision**

# Introduction

This contribution summarizes the Phase-1 discussion on open issue list review of the following email discussion:

* [POST116bis-e][707][V2X/SL] Open issues on IUC (LG)

**Scope:** 1st phase: Make an open issue lists with the proposed candidate options or rapporteur suggestion. Open issue lists can include pre-identified issues (e.g. FFS, not decided or skipped from previous offline/email discussion) and new issues raised in company contributions at RAN2#116bis. For new issues that have not discussed before, rapporteur can collect companies’ inputs (e.g. whether it is essential issue that need to be considered and closed in Rel-17) and based on that, determine whether to be included in the open issue list or not.

2nd phase: email discussion on the identified open issues with collecting companies’ inputs on the candidate options or rapporteur’s suggestion.

**Intended outcome:** Open issue list with the proposed candidate options or rapporteur’s suggestion from 1st phase (in R2-2201807). Discussion summary for the identified open issues from 2nd phase.

**Deadline:** 1st phase (1/21 – 1/28 UTC), 2nd phase (2/9 – 2/14 UTC)

The discussion is focusing on the open issue list (i.e., IUC issues RAN2 starts discussion) identified in [2] and missing RAN2 specific IUC issues not discussed in the #116b-e meeting.

**Contact list**

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| Company | Name | E-mail |
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# Phase-2 discussion on open issue list for IUC

The identified “RAN2 specific IUC issues” in [2] are needed to be discussed for WI completion. Companies are invited to provide views on the suggested way of treatment/handling for each of them (i.e. Company input into Pre117-e-offline, Company tdocs invited, CR rapporteur handled issue, Other [1]).

* **#116b-e agreements:**

Agreement on resource allocation enhancements RAN2 scopes:

1: Inter-UE coordination (IUC) issues RAN2 mainly relies on RAN1:

- HARQ retransmission number for inter-UE coordination information

- Information and length of information of IUC MAC CE. The information indicated in RAN1 LS should be taken into account as baseline.

- UE-B procedure (e.g. final selection of resources) to the (non-)preferred resource set in IUC

- Scheme 2 inter-UE coordination design

- Condition for the UE-A to transmit IUC

- Signaling design and trigger conditions for the request from UE-B to UE-A

- Cast types (UC/GC/BC) of inter-UE coordination

- Transmission of inter-UE coordination MAC CE on dedicated resource

- L1 parameters/configurations for IUC in Uu RRC (including L1 configurations per resource pool)

- Whether UE-A can be in mode1 or mode2 (interested companies are invited to raise/discuss the issue directly in RAN1)

2. IUC issues RAN2 starts discussion:

- LCP for inter-UE coordination MAC CE, support for standalone inter-UE coordination MAC CE/multiplex MAC CE and MAC SDU in a MAC PDU

- Timer to handle latency bound for inter-UE coordination

- Priority value/priority order of inter-UE coordination MAC CE. RAN1 progress can be taken into account in phase-2 discussion.

- HARQ feedback option of inter-UE coordination MAC CE

3. IUC in SL DRX is deprioritized in Rel-17 from RAN2 point of view

## Issue 1. LCP for inter-UE coordination MAC CE, i.e., support for standalone inter-UE coordination MAC CE/multiplex MAC CE and MAC SDU in a MAC PDU

RAN1 has agreed to support both standalone and multiplex with other MAC SDU for IUC MAC CE (both UE-A’s IUC information and UE-B’s explicit request). The meaning of “can be” in the RAN1 agreement below means that it is assumed that standalone is supported in RAN1 by default. Also, since RAN1 agreed on the ICU MAC being multiplexed with other MAC SDU, issue 1 has already been resolved and there seems to be no further issues. Therefore, RAN2 can start with the discussion of HARQ feedback option (issue 2)/priority order (issue 3) for standalone and MUX with other MAC SDU.

* *RAN1 agreement:*
  + *For inter-UE coordination information transmission in Scheme 1,* 
    - *Inter-UE coordination information can be multiplexed with other data only if the source/destination ID pair is the same*
      * *Retransmission of the TB carrying inter-UE coordination information is supported*
  + *For explicit request transmission in Scheme 1,* 
    - *Explicit request can be multiplexed with other data only if the source/destination ID pair is the same*
      * *Retransmission of the TB carrying request is supported*

## Issue 2. HARQ feedback option of inter-UE coordination MAC CE

RAN2 should determine the HARQ feedback option (i.e., enabled or disabled) for IUC MAC CE (i.e., both MAC CEs for UE-A’s IUC information and UE-B’s explicit request). Also, HARQ feedback option for standalone IUC MAC CE and HARQ feedback option for IUC MAC CE multiplexed with MAC SDU should be discussed.

**Q2-1: Which option would your company prefer for HARQ feedback option of a standalone MAC CE for UE-A’s IUC information?**

1. **HARQ Feedback Enabled**
2. **HARQ Feedback Disabled**
3. **Any other**

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**Q2-2: Which option would your company prefer for HARQ feedback option of a MAC CE multiplexed with MAC SDU for UE-A’s IUC information?**

1. **Follow the multiplexed MAC SDU’s HARQ feedback option (i.e., feedback enabled or feedback disabled)**
2. **Any other**

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**Q2-3: Which option would your company prefer for HARQ feedback option of a standalone MAC CE for UE-B’s explicit request?**

1. **HARQ Feedback Enabled**
2. **HARQ Feedback Disabled**
3. **Any other**

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**Q2-4: Which option would your company prefer for HARQ feedback option of a MAC CE multiplexed with MAC SDU for UE-B’s explicit request?**

1. **Follow the multiplexed MAC SDU’s HARQ feedback option (i.e., feedback enabled or feedback disabled)**
2. **Any other**

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## Issue 3. Priority value/priority order of MAC CE for inter-UE coordination information

Regarding the priority order of IUC MAC CEs (i.e., both inter-UE coordination information and explicit request), the following agreements have been made by RAN1.

* *RAN1 agreement:*
  + *For inter-UE coordination information triggered by an explicit request in Scheme 1, the priority value of the inter-UE coordination information is (pre)configured priority value if it is provided by (pre)configuration. Otherwise, the priority value is the same as indicated by UE-B’s explicit request.*
    - *For the case when inter-UE coordination information is transmitted together with other data, the priority value of the multiplexed sidelink transmission is determined by the smallest priority value between the inter-UE coordination information and data*
* *RAN1 agreement:*
  + *For inter-UE coordination information triggered by an explicit request in Scheme 1, the priority value of explicit request is (pre)configured priority value if it is provided by (pre)configuration. Otherwise, the priority value is the same as that of a TB to be transmitted by UE-B.*
    - *For the case when the explicit request is transmitted together with other data, the priority value of the multiplexed sidelink transmission is determined by the smallest priority value between the explicit request and data*
* *RAN1 agreement:*
  + *For inter-UE coordination information triggered by a condition other than explicit request reception in Scheme 1, the priority value of the inter-UE coordination information is (pre)configured priority value if it is provided by (pre)configuration.* 
    - *FFS: Otherwise, the priority value is determined by UE-A’s implementation.*
    - *For the case when inter-UE coordination information is transmitted together with other data, the priority value of the multiplexed sidelink transmission is determined by the smallest priority value between the inter-UE coordination information and data*

Therefore, there is no need to further discuss the priority value of IUC MAC CE in RAN2. In RAN2, it is only needed to discuss the priority order of IUC MAC CEs (i.e., both inter-UE coordination information and explicit request) at this period of time.

Priority order of Sidelink MAC CE is specified in 38.321 running CR as follows:

Logical channels shall be prioritized in accordance with the following order (highest priority listed first):

- data from SCCH;

- Sidelink CSI Reporting MAC CE;

- Sidelink DRX Command MAC CE;

- data from any STCH.

**Q3-1: Which option would your company prefer for priority order of a MAC CE for UE-A’s IUC information?**

1. **Between data from SCCH and SL CSI reporting MAC CE**
2. **Between SL CSI reporting MAC CE and SL DRX command MAC CE**
3. **Between SL DRX command MAC CE and data from any STCH**
4. **Any other**

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**Q3-2: Which option would your company prefer for priority order of a MAC CE for UE-B’s explicit request?**

1. **Between data from SCCH and SL CSI reporting MAC CE**
2. **Between SL CSI reporting MAC CE and SL DRX command MAC CE**
3. **Between SL DRX command MAC CE and data from any STCH**
4. **Any other**

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**Q3-3: Which option would your company prefer for a priority order between MAC CE for UE-B’s explicit request and MAC CE for UE-A's IUC information?**

1. **MAC CE for UE-B’s explicit request has a higher priority than MAC CE for UE-A’s IUC information**
2. **MAC CE for UE-A’s IUC information has a higher priority than MAC CE for UE-B’s explicit request**
3. **MAC CE for UE-B’s explicit request and MAC CE for UE-A’s IUC information have the same priority**
4. **Any other**

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## Issue 4. Timer to handle latency bound for inter-UE coordination

An issue that could be discussed in RAN2 is how to ensure that the inter-UE coordination information can be transmitted to MAC layer in time since the inter-UE coordination information is time-sensitive. There are two options RAN2 will discuss first. That is, it is possible to first decide whether to introduce a mechanism such as CSI report functionality (i.e. also timer-based) for IUC MAC CE transmission in RAN2 or leave it to the UE implementation.

For the issue 4, the modulator's opinion is as follows:

For request-based IUC, RAN1 agreed to provide information on Selection Window for resource set determination in the Request message sent from UE-B to UE-A. For condition-based IUC, RAN1 agreed that the selection window should be determined by the UE implementation. And also, RAN1 agreed on resource selection for transmitting IUC information as follows.

* *RAN1 agreement:*
  + *For Scheme 1, when the inter-UE coordination information transmission is triggered by UE-B’s explicit request,* 
    - *Starting/Ending time locations of resource selection window is provided by UE-B’s explicit request*
      * *Starting/Ending time locations of resource selection window is a form of combination of DFN index and slot index*
* *RAN1 agreement:* 
  + *For determining preferred resource set in Scheme 1, when inter-UE coordination information transmission is triggered by a condition other than explicit request reception,*
    - *Values of following parameters are (pre)configured for a resource pool. If there is no (pre)configuration, UE-A determines by its implementation the values of the following parameters*
      * *prio\_TX*
      * *L\_subCH*
      * *P\_rsvp\_TX*
    - *UE-A determines by its implementation values of following parameters* 
      * *n+T\_1, n+T\_2*
    - *FFS: Whether/how to support (pre)configuration of n+T\_1 and n+T\_2*
    - *Note that it is up to RAN2 decision whether/how the values of these parameters are provided by PC5-RRC signaling from UE-B to UE-A and UE-A uses the received information to determine the preferred resource set*
* *RAN1 agreement:*
  + *For sidelink transmission carrying inter-UE coordination information in Scheme 1,* 
    - *UE-A performs its resource (re)selection according to the same procedure in TS 38.214 Section 8.1.4 to transmit the inter-UE coordination information to UE-B.*
  + *For sidelink transmission carrying request in Scheme 1,* 
    - *UE-B performs its resource (re)selection according to the same procedure in TS 38.214 Section 8.1.4 to transmit the request for the inter-UE coordination information to UE-A if UE-B performs sensing/resource exclusion. Otherwise, at least UE-B can perform random selection*
  + *Note: RAN1 does not pursue specific enhancement of Rel-17 resource (re)selection for the transmission of inter-UE coordination information and its request.*

In summary, it can be seen that RAN1 does not explicitly introduce restriction of latency bound for UE-A to transmit IUC information to UE-B. On the other hand, according to the RAN1 agreements, when UE-A decides to send IUC information to UE-B, the latest timing at which IUC information can be transmitted can be implicitly interpreted as the ending point of Selection Window for determining the resource set.

That is, for the issue 4, moderator’s suggestion is that RAN2 does not need to spend time considering additional latency bounds under IUC scenarios, it is sufficient to leave it as UE-A's implementation.

**Q4-1: Which option would your company prefer for “Timer to handle latency bound for transmission of UE-A’s IUC information”?**

1. **Introduce a mechanism for timer-based latency bound restriction for transmission of UE-A’s IUC information**
2. **Leave it to the UE implementation**
3. **Any other**

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**Q4-2: If your company answered option “A” to Q4.1, which option would your company prefer for the applied scenario for the latency bound for the transmission of UE-A’s IUC information, i.e., explicit request based case, condition based case?**

1. **Explicit request-based case only**
2. **Condition-based case only**
3. **Both explicit request case and condition-based case**
4. **Any other**

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**Q4-3: If your company answered option “A” to Q4.1, which option would your company prefer for the applied cast type(s) for the latency bound for the transmission of UE-A’s IUC information in the condition-based IUC?**

1. **introduce latency bound restriction to unicast in the condition-based IUC**
2. **introduce latency bound restriction to GC (for non-preferred resource set) in the condition-based IUC**
3. **introduce latency bound restriction to BC (for non-preferred resource set) in the condition-based IUC**
4. **Any other**

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**Q4-4: If your company answered option “A” to Q4.1, which option would your company prefer for the applied resource set type(s) for the latency bound for the transmission of UE-A’s IUC information?**

1. **Apply only to preferred resource set**
2. **Apply only to non-preferred resource set**
3. **Apply to both preferred resource set and non-preferred resource set**
4. **Any other**

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| **Company** | **Option** | | **Comment** |
| Option for explicit request based case | Option for condition-based case |
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**Q4-5: If your company answered option “A” to Q4.1, which option would your company prefer for how to configure this timer for the transmission of UE-A’s IUC information?**

1. **UE-B sets timer value to UE-A through PC5 RRC signaling**
2. **Timer value is configured based on (pre)configuration of the network**
3. **Leave it to the UE implementation**
4. **Any other**

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| **Company** | **Option** | | **Comment** |
| Option for explicit request based case | Option for condition-based case |
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**Q4-6: If your company answered option “A” to Q4.1, which option would your company prefer for when to start this timer for the transmission of UE-A’s IUC information?**

1. **When receiving an explicit request from UE-B**
2. **When UE-A decides to send IUC information to UE-B in the condition-based IUC**
3. **Any other**

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| **Company** | **Option** | | **Comment** |
| Option for explicit request based case | Option for condition-based case |
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**Q4-7: If your company answered option “A” to Q4.1, which option would your company prefer for when to stop this timer for the transmission of UE-A’s IUC information?**

1. **When transmitting an IUC information to UE-B**
2. **Any other**

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| **Company** | **Option** | | **Comment** |
| Option for explicit request based case | Option for condition-based case |
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**Q4-8: If your company answered option “A” to Q4.1, which option would your company prefer for when to cancel the transmission of UE-A’s IUC information?**

1. **if the timer for the triggered UE-A’s IUC information reporting expires**
2. **Any other**

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| **Company** | **Option** | | **Comment** |
| Option for explicit request based case | Option for condition-based case |
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## Issue 5. MAC CE for explicit request message

RAN1 has agreed to support MAC CE for UE-B’s explicit request. Thus, RAN2 should discuss priority order and HARQ feedback option for this MAC CE as well. This issue 5 is covered in Issue 2 and Issue 3.

## Issue 6. Cast types (UC/GC/BC) of inter-UE coordination

In the last #116b-e meeting, RAN2 did not classify the cast type discussion of IUC as a RAN2 specific issue. However, Considering FFS points in the RAN1 agreements below, it could be useful to decide whether RAN2 can start to discuss the relevant issue or RAN2 should wait more for RAN1's ​​progress. If the majority of companies support the former direction, the discussion can proceed through a separate discussion (e.g., offline discussion in #117-e) rather than this post email discussion (Guidance of Session Chair)”

* *Working Assumption:*
  + *For Scheme 1, following cast type(s) are supported for inter-UE coordination information transmission triggered by a condition other than explicit request reception*
    - *Groupcast/Broadcast for non-preferred resource set, FFS for preferred resource set*
      * *FFS: Under which conditions groupcast/broadcast can be supported*
    - *Unicast*
      * *FFS: Under which conditions unicast can be supported*

**Q6-1: Would your company agree that RAN2 can start discussing FFS point of RAN1 agreement (i.e., FFS: Under which conditions groupcast/broadcast can be supported, FFS: Under which conditions unicast can be supported) of condition-based IUC information without waiting more for RAN1’s progress?**

1. **Yes**
2. **No (i.e., waiting for more RAN1 progress)**
3. **Any other**

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## Issue 7. Support of signalling parameters used for determining preferred resource set from UE-B to UE-A

According to the RAN1 agreement (RAN1 instructed RAN2 to decide), in phase-2, it can be discussed whether/how the values of the parameters (i.e., prio\_TX, L\_subCH, P\_rsvp\_TX, n+T\_1, n+T\_2) are provided by PC5-RRC signalling from UE-B to UE-A and UE-A uses the received information to determine the preferred resource set.

* *RAN1 agreement:*

For determining preferred resource set in Scheme 1, when inter-UE coordination information transmission is triggered by a condition other than explicit request reception,

* Values of following parameters are (pre)configured for a resource pool. If there is no (pre)configuration, UE-A determines by its implementation the values of the following parameters
  + prio\_TX
  + L\_subCH
  + P\_rsvp\_TX
* UE-A determines by its implementation values of following parameters
  + n+T\_1, n+T\_2
* FFS: Whether/how to support (pre)configuration of n+T\_1 and n+T\_2
* Note that it is up to RAN2 decision whether/how the values of these parameters are provided by PC5-RRC signaling from UE-B to UE-A and UE-A uses the received information to determine the preferred resource set

**Q7-1: Would your company agree that PC5-RRC signaling from UE-B to UE-A can be used for transmitting the parameters (i.e., prio\_TX, L\_subCH, P\_rsvp\_TX, n+T\_1, n+T\_2)?**

1. **Yes**
2. **No**
3. **Yes, but only supports PC5-RRC signaling if there is no (pre)configuration of parameters (i.e., prio\_TX, L\_subCH, P\_rsvp\_TX, n+T\_1, n+T\_2)**
4. **Any other**

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Moreover, RAN2 can discuss and decide how to implement these parameters (i.e., prio\_TX, L\_subCH, P\_rsvp\_TX, n+T\_1, n+T\_2). We think this can be handled as “CR rapporteur handled issue” during running CR discussion.

## Issue 8. Support of signalling capability of UE-B’s sensing/resource exclusion used for UE-A to determine resource set type to be provided by IUC information to UE-B

According to the RAN1 agreement (RAN1 instructed RAN2 to decide), in phase-2, it can be discussed whether/how UE-B provides its support of sensing/resource exclusion to UE-A via PC5-RRC signalling and UE-A uses the received information to determine the type of resource set to be transmitted to UE-B.

* *RAN1 agreement*

For inter-UE coordination information is triggered by UE-B’s request,

* A resource pool level (pre-)configuration can enable one of the following alternatives:
  + Alt 1:
    - Resource set type to be provided by inter-UE coordination information transmission is determined by UE-A’s implementation and its information is indicated by UE-A’s inter-UE coordination information
      * UE-A’s inter-UE coordination information indicates either preferred resource set or non-preferred resource set
  + Alt 2:
    - Resource set type to be provided by inter-UE coordination information transmission is indicated by UE-B’s request
      * UE-B’s request indicates either preferred resource set or non-preferred resource set
* Note that it is up to RAN2 decision whether/how UE-B provides its support of sensing/resource exclusion to UE-A via PC5-RRC signaling and UE-A uses the received information to determine the type of resource set to be transmitted to UE-B

**Q8-1: Would your company agree that PC5-RRC signaling from UE-B to UE-A can be used for providing the UE-B’s support of sensing/resource exclusion in the Alt 1 scenario (i.e., Resource set type to be provided by inter-UE coordination information transmission is determined by UE-A’s implementation and its information is indicated by UE-A’s inter-UE coordination information) of the RAN1 agreement?**

1. **Yes**
2. **No (e.g., optimization issue)**
3. **Any other**

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# Phase-1 summary

**Issue 1. LCP for inter-UE coordination MAC CE, i.e., support for standalone inter-UE coordination MAC CE/multiplex MAC CE and MAC SDU in a MAC PDU**

* **Issue 1 has already been resolved (i.e., support standalone inter-UE coordination MAC CE/MAC CE multiplexed with other MAC SDU) and there seems to be no further issues.**

**Issue 2. HARQ feedback option of inter-UE coordination MAC CE**

* **For standalone MAC CE and multiplexed MAC CE with other MAC SDU, HARQ feedback option (i.e. enabled or disabled) is discussed in the phase-2 discussion. Furthermore, HARQ feedback option for both MAC CEs for UE-A’s IUC information and UE-B’s explicit request is discussed in the phase-2.**

**Issue 3. Priority value/priority order of MAC CE for inter-UE coordination information**

* **It is only needed to discuss the priority order of IUC MAC CE (i.e., both MAC CE for UE-A’s IUC information and MAC CE for UE-B’s explicit request) at this point. Like the discussion of SL CSI and SL DRX command MAC CE, the priority order for IUC MAC CE is discussed in phase-2.**

**Issue 4. Timer to handle latency bound for inter-UE coordination**

* **There are two options RAN2 will discuss first. RAN2 can first decide whether to introduce a mechanism such as CSI report functionality (i.e. also timer-based) for IUC MAC CE transmission in RAN2 or leave it to the UE implementation.**
* **If it is decided to introduce a mechanism such as CSI report functionality (i.e. also timer-based) in RAN2, the following issues can be further discussed:**
  + **The applied scenario for the latency bound, i.e., explicit request procedure only or non-explicit request procedure only or both explicit and non-explicit request procedures.**
  + **How to configure this timer**
  + **When to start/stop this timer**
  + **When to cancel the IUC MAC CE**
  + **UE behaviour if transmission of a pending IUC MAC CE with the sidelink grant(s) cannot fulfil the latency requirement associated to the IUC reporting**

**Issue 5. MAC CE for explicit request message**

* **Issue 2/3 includes a discussion of priority order/HARQ feedback options for MAC CE for explicit request messages.**

**Issue 6. Cast types (UC/GC/BC) of inter-UE coordination**

* **In Phase-2, cast types for inter-UE coordination information transmission can be discussed. However, it is questionable if new conditions are needed other than to work like UC/GC/BC in legacy. For example, if there is a UC connection, it is transmitted to UC. If there is no UC connection, it is transmitted to GC or BC.**

**Issue 7. Support of signalling parameters used for determining preferred resource set from UE-A to UE-B**

* **According to the RAN1 agreement (RAN1 instructed RAN2 to decide), in phase-2, it can be discussed whether/how the values of these parameters are provided by PC5-RRC signalling from UE-B to UE-A and UE-A uses the received information to determine the preferred resource set.**

**Issue 8. Support of signalling capability of UE-B’s sensing/resource exclusion used for UE-A’s resource set type to be provided by IUC information to UE-B**

* **According to the RAN1 agreement (RAN1 instructed RAN2 to decide), in phase-2, it can be discussed whether/how UE-B provides its support of sensing/resource exclusion to UE-A via PC5-RRC signalling and UE-A uses the received information to determine the type of resource set to be transmitted to UE-B.**

# Phase-2 summary

# References

1. R2-2201807 Summary of [POST116bis-e][707][V2XSL] Open issues on IUC Phase-1 LG